

# Lithium Iron Phosphate (LiFeO4) Battery

## MB26650 (3.2V, 3800mAh)



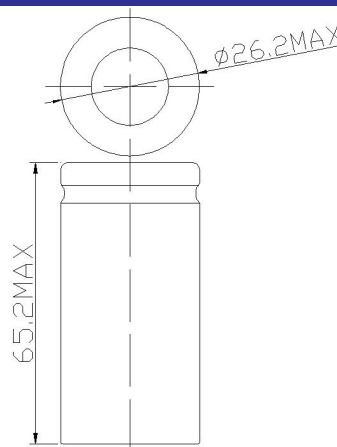
### Features of Lithium Iron Phosphate

- **Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.
- **Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- **Wider Temperature Range:** -20 C~60 C.
- **Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.
- **Increased Flexibility:** Modular design enables deployment of up to four batteries in series and up to ten batteries in parallel.

### SGS

- MSDS
- UN38.3
- IEC
- CB
- FCC

### Physical Dimension



### Specification

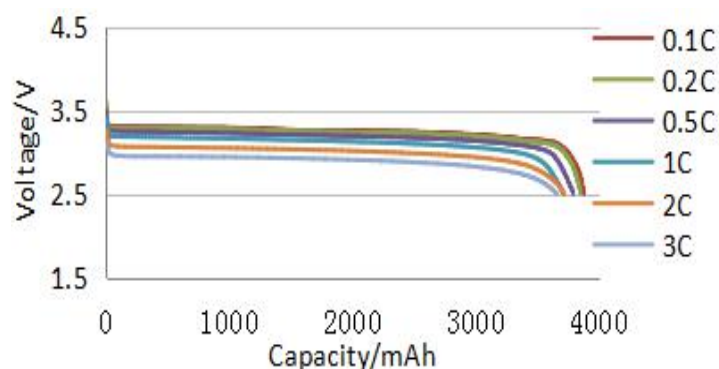
Electrical Characteristics	Nominal Voltage	3.2V
	NomiCapacitynal	3800mAh
	Energy	12.16Wh
	Internal Resistance	≤60mΩ
	Cycle Life	>2000 cycles @0.2C 80%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	3.65V
	Charge Mode	0.2C to 3.65V, then 3.65V,charge current to 0.02C <sub>5</sub> A (CC/CV)
	Charger Current	760mA
	Max. Charge Current	1.0C <sub>5</sub> A
	Charge Cut-off Voltage	4.2±0.03V
Standard Discharge	Continuous Current	760mA
	Max.Discharge Current	3.0C <sub>5</sub> A
	Discharge Cut-off Voltage	2.5V
Environmental	Charge Temperature	0℃ to 45℃ (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20℃ to 60℃ (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0℃ to 40℃ (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	/
Mechanical	Dimensions (mm.)	27.0*66.5mm MAX
	Weight (g.)	Approx:92g

# Lithium Iron Phosphate (LiFeO<sub>4</sub>) Battery

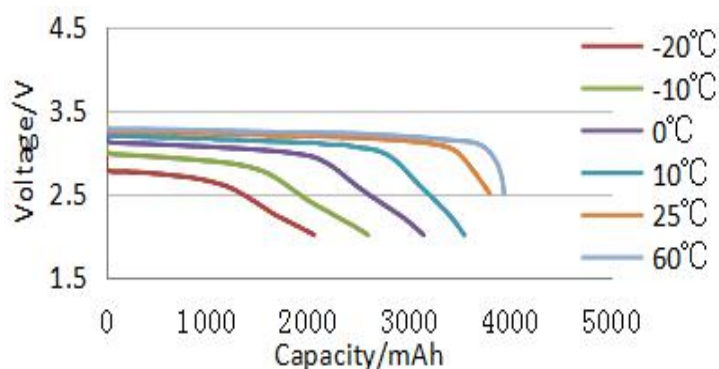
## MB26650 (3.2V, 3800mAh)



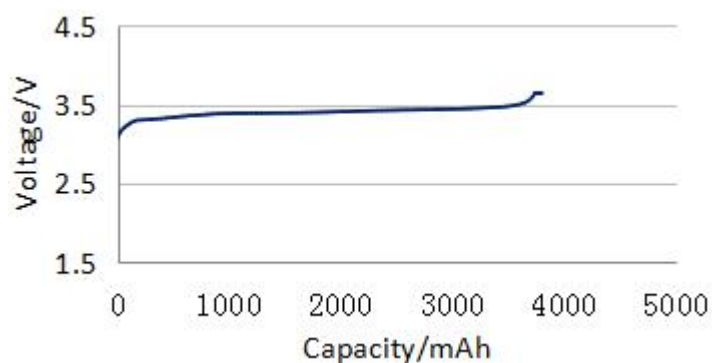
### Different Rate Discharge Curve



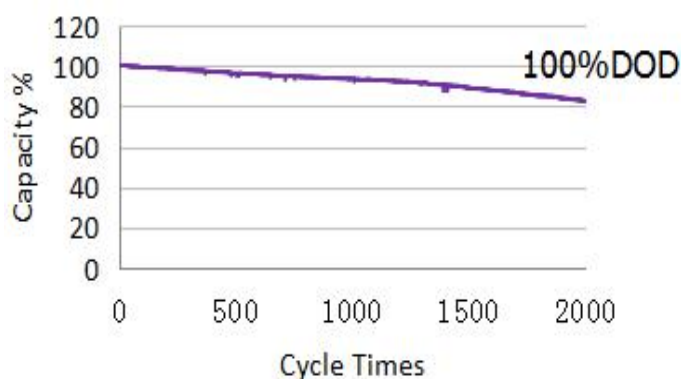
### Different Temperature Discharge Curve



### 0.5C Charge Curve



### Cycle Life Curve



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